

## 0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC

LOCATION.--Lat 35°50'43", long 78°43'28", Wake County, Hydrologic Unit 03020201, on upstream side of bridge on Secondary Road 1649, 0.1 mi upstream from Sycamore Creek, and 6.6 mi northwest of Raleigh.

DRAINAGE AREA.--76 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1987 to September 1992, May 1997 to current year. December 1987 to September 1992, published as "Crabtree Creek at Secondary Road 1649 near Raleigh, NC".

GAGE.--Water-stage recorder. Datum of gage is 225.00 ft above NGVD of 1929, from levels. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Flow regulated by flood-control dams upstream. Minimum discharge for period of record due to regulation.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY     | JUN  | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|---------|------|-------|-------|-------|
| 1     | 21    | 67    | 39    | 33    | 69    | 100   | 106   | 29      | 14   | 31    | 217   | 397   |
| 2     | 18    | 51    | 34    | 32    | 61    | 85    | 132   | 118     | 11   | 27    | 193   | 246   |
| 3     | 15    | 41    | 29    | 30    | 193   | 76    | 102   | 367     | 10   | 90    | 214   | 137   |
| 4     | 13    | 34    | 29    | 31    | 206   | 67    | 80    | 277     | 32   | 91    | 121   | 84    |
| 5     | 12    | 30    | 121   | 34    | 149   | 60    | 62    | 161     | 49   | 50    | 80    | 58    |
| 6     | 12    | 31    | 115   | 47    | 139   | 66    | 49    | 100     | 33   | 38    | 228   | 48    |
| 7     | 11    | 48    | 93    | 41    | 427   | 72    | 42    | 70      | 28   | 29    | 130   | 87    |
| 8     | 13    | 45    | 73    | 37    | 255   | 64    | 38    | 52      | 23   | 23    | 71    | 253   |
| 9     | 24    | 40    | 62    | 39    | 167   | 54    | 34    | 41      | 20   | 18    | 43    | 342   |
| 10    | 23    | 34    | 143   | 44    | 121   | 53    | 30    | 34      | 42   | e42   | 27    | 186   |
| 11    | 26    | 29    | 457   | 40    | 94    | 48    | 28    | 27      | 91   | e32   | 19    | 112   |
| 12    | 25    | 27    | 259   | 39    | 144   | 44    | 58    | 24      | 35   | e56   | 48    | 76    |
| 13    | 22    | 27    | 165   | 38    | 196   | 38    | 136   | 32      | 25   | e165  | 257   | 56    |
| 14    | 22    | 22    | 544   | 35    | 154   | 35    | 133   | 24      | 21   | e80   | 1,340 | 47    |
| 15    | 47    | 17    | 434   | 35    | 137   | 147   | 104   | 19      | 22   | 49    | 1,140 | 76    |
| 16    | 35    | 17    | 258   | 32    | 178   | 533   | 78    | 16      | 25   | 36    | 944   | 60    |
| 17    | 29    | 18    | 215   | 30    | 167   | 505   | 62    | 15      | 20   | 26    | 471   | 221   |
| 18    | 31    | 18    | e180  | 54    | 145   | 316   | 50    | 14      | 17   | 138   | 224   | 557   |
| 19    | 25    | 116   | e134  | 60    | 123   | 268   | 42    | 14      | 14   | 133   | 117   | 336   |
| 20    | 22    | 175   | e95   | 51    | 104   | 187   | 33    | 23      | 12   | 99    | 70    | 178   |
| 21    | 19    | 110   | e75   | 45    | 89    | 135   | 29    | 16      | 11   | 66    | 51    | 109   |
| 22    | 17    | 78    | e66   | 42    | 72    | 99    | 25    | 13      | 10   | 57    | 164   | 75    |
| 23    | 15    | 59    | 60    | 39    | 63    | 76    | 23    | 13      | 23   | 310   | 102   | 56    |
| 24    | 13    | 48    | 60    | 36    | 56    | 62    | 20    | 15      | 37   | 185   | 61    | 44    |
| 25    | 11    | 39    | 58    | 34    | e50   | 54    | 18    | 14      | 27   | 110   | 40    | 36    |
| 26    | 12    | 32    | 50    | 40    | 45    | 48    | 20    | 13      | 39   | 72    | 27    | 31    |
| 27    | 14    | 28    | 46    | 38    | 74    | 43    | 35    | 12      | 45   | 55    | 19    | 28    |
| 28    | 22    | 31    | 42    | 42    | 113   | 39    | 29    | 12      | 35   | 62    | 14    | 60    |
| 29    | 221   | 58    | 40    | 53    | 120   | 36    | 26    | 9.0     | 45   | 167   | 12    | 90    |
| 30    | 146   | 44    | 40    | 69    | ---   | 32    | 24    | 13      | 40   | 657   | 624   | 71    |
| 31    | 96    | ---   | 36    | 77    | ---   | 31    | ---   | 14      | ---  | 397   | 563   | ---   |
| TOTAL | 1,032 | 1,414 | 4,052 | 1,297 | 3,911 | 3,473 | 1,648 | 1,601.0 | 856  | 3,391 | 7,631 | 4,157 |
| MEAN  | 33.3  | 47.1  | 131   | 41.8  | 135   | 112   | 54.9  | 51.6    | 28.5 | 109   | 246   | 139   |
| MAX   | 221   | 175   | 544   | 77    | 427   | 533   | 136   | 367     | 91   | 657   | 1,340 | 557   |
| MIN   | 11    | 17    | 29    | 30    | 45    | 31    | 18    | 9.0     | 10   | 18    | 12    | 28    |
| CFSM  | 0.44  | 0.62  | 1.72  | 0.55  | 1.77  | 1.47  | 0.72  | 0.68    | 0.38 | 1.44  | 3.24  | 1.82  |
| IN.   | 0.51  | 0.69  | 1.98  | 0.63  | 1.91  | 1.70  | 0.81  | 0.78    | 0.42 | 1.66  | 3.74  | 2.03  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004,<sup>@</sup> BY WATER YEAR (WY)

|      | 71.3   | 58.2   | 72.2   | 124    | 138    | 166    | 96.7   | 51.6   | 50.8   | 56.3   | 72.8   | 101    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 71.3   | 58.2   | 72.2   | 124    | 138    | 166    | 96.7   | 51.6   | 50.8   | 56.3   | 72.8   | 101    |
| MAX  | 276    | 165    | 255    | 370    | 364    | 393    | 260    | 144    | 136    | 113    | 246    | 743    |
| (WY) | (2003) | (2003) | (2003) | (1998) | (1998) | (1998) | (2003) | (1989) | (2001) | (1997) | (2004) | (1999) |
| MIN  | 13.6   | 23.8   | 14.4   | 23.1   | 16.2   | 25.0   | 32.5   | 9.30   | 9.34   | 9.15   | 6.74   | 5.35   |
| (WY) | (1992) | (1992) | (1991) | (2001) | (1991) | (1988) | (1992) | (2002) | (1999) | (1988) | (1990) | (1990) |

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| SUMMARY STATISTICS       | FOR 2003 CALENDAR YEAR |        | FOR 2004 WATER YEAR |        | WATER YEARS 1988 - 2004 <sup>@</sup> |              |
|--------------------------|------------------------|--------|---------------------|--------|--------------------------------------|--------------|
| ANNUAL TOTAL             | 47,278                 |        | 34,463.0            |        |                                      |              |
| ANNUAL MEAN              | 130                    |        | 94.2                |        | 92.7                                 |              |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 170                                  | 2003         |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 46.6                                 | 1992         |
| HIGHEST DAILY MEAN       | 1,640                  | Apr 10 | 1,340               | Aug 14 | 3,250                                | Sep 16, 1999 |
| LOWEST DAILY MEAN        | 11                     | Oct 7  | 9.0                 | May 29 | 2.1                                  | Dec 18, 1990 |
| ANNUAL SEVEN-DAY MINIMUM | 13                     | Oct 2  | 12                  | May 28 | 2.6                                  | Dec 12, 1990 |
| MAXIMUM PEAK FLOW        |                        |        | 1,700               | Aug 14 | 4,720                                | Sep 16, 1999 |
| MAXIMUM PEAK STAGE       |                        |        | 11.39               | Aug 14 | 19.78                                | Sep 16, 1999 |
| INSTANTANEOUS LOW FLOW   |                        |        | 5.4                 | May 29 | 1.5*                                 | Oct 12, 1997 |
| ANNUAL RUNOFF (CFSM)     | 1.70                   |        | 1.24                |        | 1.22                                 |              |
| ANNUAL RUNOFF (INCHES)   | 23.14                  |        | 16.87               |        | 16.57                                |              |
| 10 PERCENT EXCEEDS       | 287                    |        | 208                 |        | 208                                  |              |
| 50 PERCENT EXCEEDS       | 65                     |        | 48                  |        | 36                                   |              |
| 90 PERCENT EXCEEDS       | 23                     |        | 17                  |        | 9.0                                  |              |

<sup>@</sup> See PERIOD OF RECORD.

\* See REMARKS.

e Estimated.

